

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO

Report Number: P641171

Luminaire Tested: ML5612LSNFL2597FS1E - 693WB - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 693WB - 1200LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

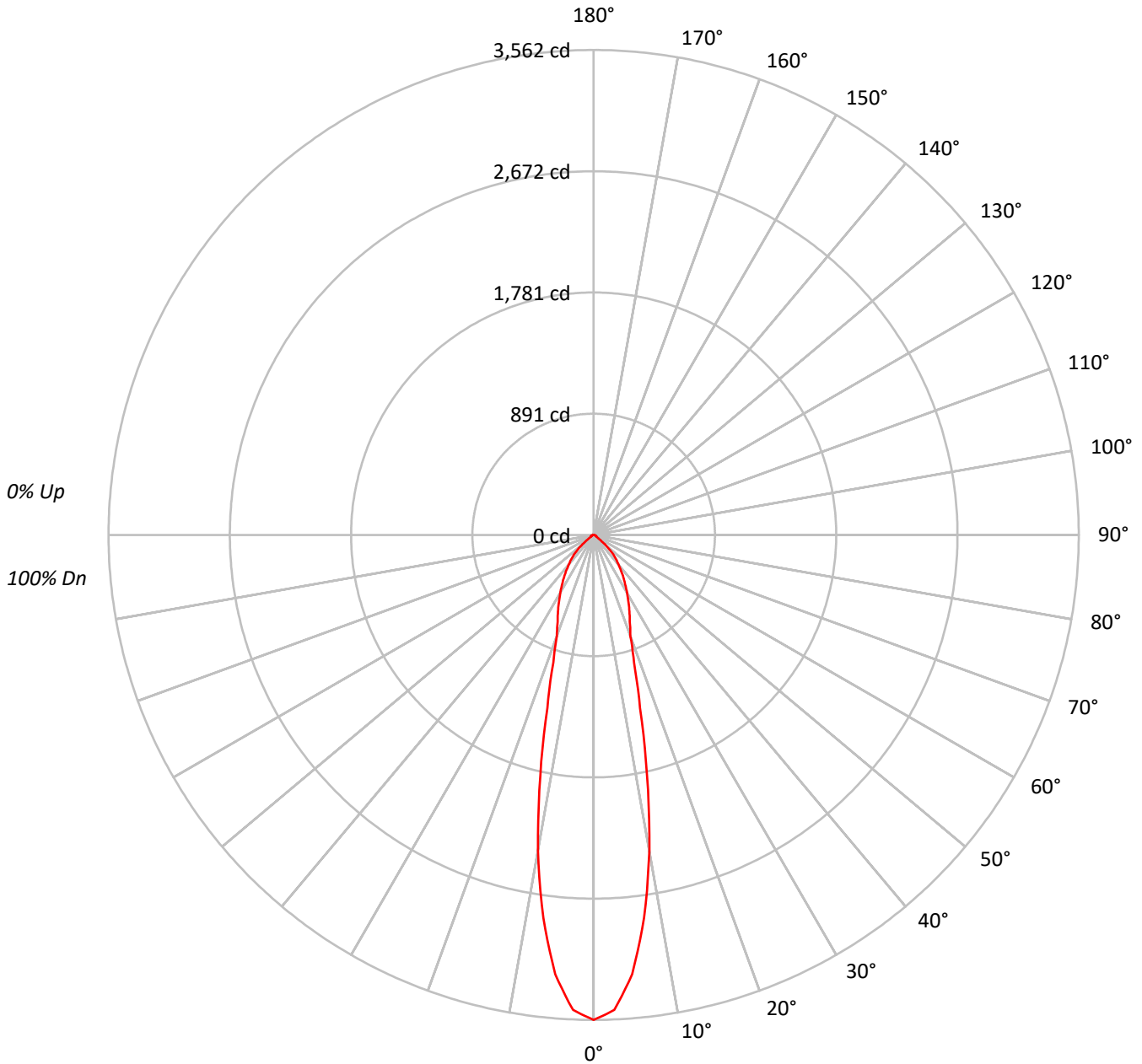
Lumens per Lamp: N/A
Luminaire Lumens: 1409.2 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P641171
CATALOG NUMBER: ML5612LSNFL2597FS1E - 693WB - 1200LM - 2700K

Luminous Intensity Polar Plot





TEST NUMBER: P641171

CATALOG NUMBER: ML5612LSNFL2597FS1E - 693WB - 1200LM - 2700K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	113	110	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80			
4	97	90	84	80	95	88	83	79	86	82	78	84	81	77	82	79	77	75			
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70			
6	88	79	73	69	87	79	73	69	77	72	68	76	71	68	74	71	68	66			
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62			
8	80	71	65	61	79	71	65	61	70	64	61	68	64	61	68	63	60	59			
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	60	57	56			
10	74	65	59	55	73	64	59	55	63	58	55	63	58	55	62	58	55	53			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	195291
5°	178230
10°	131026
15°	74666
20°	46006
25°	37551
30°	30935
35°	25371
40°	20324
45°	15978
50°	9125
55°	3278
60°	2752
65°	2400
70°	2116
75°	2245
80°	2494
85°	2516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15978 cd/sqm



TEST NUMBER: P641171

CATALOG NUMBER: ML5612LSNFL2597FS1E - 693WB - 1200LM - 2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.3	19.9
10°-20°	379.4	26.9
20°-30°	285.8	20.3
30°-40°	237.2	16.8
40°-50°	152.8	10.8
50°-60°	40.5	2.9
60°-70°	18.1	1.3
70°-80°	11.2	0.8
80°-90°	4.0	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	945.4	67.1
0°-40°	1182.6	83.9
0°-60°	1376.0	97.6
0°-90°	1409.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1409.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3562	
5°	3239	280
15°	1316	379
25°	621	286
35°	379	237
45°	206	153
55°	34	41
65°	18	18
75°	11	11
85°	4	4
90°	0	



TEST NUMBER: P641171

CATALOG NUMBER: ML5612LSNFL2597FS1E - 693WB - 1200LM - 2700K

CANDELA DISTRIBUTION (FULL):

	0°
0°	3562.4
2.5°	3492.4
5°	3238.8
7.5°	2835.9
10°	2353.8
12.5°	1808.3
15°	1315.6
17.5°	984.1
20°	788.6
22.5°	692.1
25°	620.8
27.5°	552.1
30°	488.7
32.5°	431.9
35°	379.1
37.5°	328.9
40°	284.0
42.5°	244.4
45°	206.1
47.5°	153.2
50°	107.0
52.5°	55.5
55°	34.3
57.5°	27.7
60°	25.1
62.5°	21.1
65°	18.5
67.5°	14.5
70°	13.2
72.5°	11.9
75°	10.6
77.5°	9.2
80°	7.9
82.5°	5.3
85°	4.0
87.5°	1.3
90°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)